Session 1A
Moderator: Christine Raber

Mentor: Christine Raber
Shae McKay, Megan Thompson, Emily Osborne, & Megan Berthold, Master of Occupational Therapy

The Remotivation Process for Persons Living with Dementia: A Pilot Study
This pilot study manualized a training process for occupational therapy practitioners’ use of the Remotivation Process for individuals living with dementia in skilled nursing facilities. The primary objective was to better understand therapists’ implementation processes, and the impact of the RP intervention to promote increased motivation to engage in everyday occupations within this population. An action research approach was used to examine the experience of therapists using the RP after receiving the investigator-developed training program that was specifically tailored to meet the needs of residents with dementia. Training methods were examined to assess intervention fidelity across four therapists in two nursing homes, and therapist participants used the RP with five resident participants. Therapist experiences were gathered through interviews, participant observation, and intermittent videotaping of their delivery of the RP. Results will be forthcoming.

Session 1B
Moderator: Keijing Liu

Mentor: Kejing Liu
Dawson Little, Early Childhood Education

Reading for Math
The purpose of this study is to examine the impact of second grade students' math vocabulary on their math word problem comprehension. This study aims to discover how building math vocabulary can increase scores in math. In-depth sight vocabulary instruction and constant practicing and use of vocabulary in word problems are employed as primary instruments to deepen young learners’ mastery of sight vocabulary and skills to quickly recognize them during math problem solving. The study was conducted over a 10 week period in a second grade classroom. Hopefully, the study’s findings will be beneficial to early childhood educators, second grade math teachers and students, and parents as well.
Increasing Word Problem Proficiency Among First Graders
The purpose of this project is to find ways to have a positive influence on word problem proficiency among first graders. Two primary research questions will be explored. The first is: “Does an emphasis on word problem vocabulary fluency benefit the student?” The second asks: What kind of word problem strategies will be the most beneficial to the student? The methodology will include a beginning unit on vocabulary to help develop fluency. After this, a new strategy will be introduced every week or every other week and will include assessment, depending on the needs of the students. Strategies will include drawing a picture and the use of manipulatives. The study is significant to both in-service and pre-service teachers. Word problems are very common on high stakes testing and students need effective strategies to help in the solving of these problems.

Fostering Key Vocabulary in 3rd Grade Mathematics
This presentation will be an overview of an action research project conducted to increase 3rd grade students’ key vocabulary in mathematics according to the Common Core State Standards. The students will practice a variety of strategies to implement the vocabulary within word-problems as well as applying various other methods that will help students make connections between both reading and math content areas. With an emphasis on terminology in mathematical word problems students are more confident and aware of what the question is asking of them and how to compute it mentally and physically on paper or with the use of manipulatives. Throughout the presentation the statement of the problem, significance of the study, research goals/questions, and the limitations of the study will be addressed based on literature reviews and field experiences/results.

Beyond the Brush: the Evolution of Chinese Calligraphy
Since the time of ancient China, calligraphy has developed and evolved into an art form throughout centuries. This beautiful writing has become more than communication, it has transcended into an art form. This research describes the evolution of calligraphy through the pages of Chinese history, and the impact it has on Chinese art and culture. Calligraphy has influenced many aspects of Chinese life, from a form of communication, to the developments in the arts and also a symbol of status in their society, which all have a core focus on perfection in the skill of calligraphy.
Mentor: Isabel Graziani  
**Allison Huffman, Graphic Design**

**Graphic Design During the World Wars**  
The need for graphic designers increased during World War 1 and World War 2, when the government needed more support in favor of the war. During times of war, government controlled graphic artists and the advertisements they published. In this presentation, the work of graphic designers will be reviewed with regards to how their art reflected the times of war and government ideals.

Mentor: Isabel Graziani  
**Alexandra Lahm, Fine Arts - Drawing**  
**The History of Shinto Arts in Japan**  
Shinto, frequently described as the national religion of Japan, has played a central role in Japanese life since its prehistoric periods and continues to be an important part of Japanese culture today. This discussion will explore Shinto's growth and evolution throughout Japan's history as expressed in the arts.

**Session 1D**  
**Room UC215**  
**Moderator: James Simmons**

Mentor: Kurt Shoemaker  
**Justin Thompson, Natural Science Geology Concentration**  
**Geomorphic Evidence of Glacial Lake Tight Draining in Bear Creek Valley**  
During the Pleistocene, Glacial Lake Tight covered most of what is now southern Ohio, including the Bear Creek Valley (USGS Wakefield quad) and the immediate surrounding area of northwestern Scioto County, which was believed to be rapidly drained near the end of the Pleistocene. My goal is to identify the geological features including bedrock formations, and what I believe to be either terraces formed by Big Bear Creek, or Torrent features formed during the rapid draining of Lake Tight.

Mentor: Kurt Shoemaker  
**Julie Cooper, Natural Sciences Geology Concentration**

**Potential Glacier Induced Seismic Events Cause Sand Blows in Southern Pike County, Ohio During the Pleistocene Ice Age**  
The Portsmouth Gaseous Diffusion Plant (PORTS) in Piketon, Ohio is located in the Western Alleghany Plateau; the geologic setting is predominately flat-lying shale and sandstone covered by fluval and lacustrine deposits of the Teays Formation occupying the paleochannel of the pre-Pleistocene Portsmouth River, a tributary of the pre-Pleistocene Teays River. The Teays Formation consists of two members the Gallia, and the Minford. The Gallia Member represents pre-Pleistocene stream channels. The Minford member represents the fine muds deposited in a dammed lake at the glacial margin. Approximately 2,000 wells have been drilled across the site and out of those ± 2,000 wells 29 have Gallia sediments that are describes as being reworked. My
hypothesis suggests that seismic events may have caused siesmites or sand blows to erupt causing the Gallia Member sediments to be displaced above or within the Minford silt.

Mentor: Kurt Shoemaker
Travis Bailey and Zack Bishop, Geology

Two Distinct Shorelines of Pleistocene Lake Tight in South-Central Ohio
During the Pleistocene, glacial ice dammed the northwest-directed Teays River drainage in southern Ohio, creating proglacial Lake Tight in the incipient Upper Ohio River Basin (UORB). Geomorphologic evidence in the form of wave-cut notches, bluffs, and elongated stacks have been observed in the Lower Scioto River Valley and Abandoned Teays River Valley (LS-ATV). These geologic features have been used to delineate two ancient shorelines of Lake Tight at elevations of 825 ft. and 900 ft. suggesting an episodic filling model for Lake Tight. These features were mapped using altimetric and GPS data to correlate the Pleistocene shorelines across the LS-ATV. The persistence of these erosional features at high elevations, over long distances, outlining a continuous shoreline, supports the presence of Lake Tight in UORB for an extended length of time during the Pleistocene, and may provide alternative explanations for other geologic features in UORB.

Session 1E Room MAS213
Moderator: Adair Lattimer

Mentor: Eugene Burns
Elijah Kelley, Brandon Mays, & Elijah Piatt, Biology, Biomedical Science

Characterizing Proteins Produced in Mutant Bordetella Bronchiseptica
Bordetella bronchiseptica is a gram-negative bacillus associated with acute tracheobronchitis in canines and atrophic rhinitis in swine. Previous researchers developed a transposon insertion mutant strain that exhibited changed attachment abilities. Our purpose is to identify and profile protein(s) that is/are different in the mutant strain vs. the wild type. Electrophoresis gels separate proteins by size, allowing us to observe differences. We identified two anomalies. First, a protein was only present in the wild type strain. The other anomaly was a doublet protein located only in the mutant strain. Our current goal is to fully identify these proteins by amino acid sequencing. We need to separate the proteins in the gels so that we can cut out individual protein bands. To get better separation we use larger gels and different concentrations. With these methods we will be able to separate the proteins enough to cut them out and sequence.

Mentor: Eugene Burns
Adam Otworth, Biomedical Sciences

Mutated Bordetella Bronchiseptica Attachment to Dog and Pig Cells
Bordetella bronchiseptica is a gram negative bacillus that is well known for causing kennel cough in dogs and atrophic rhinitis in pigs. Variations in attachment to different animal cells have been previously observed. In our lab we have created a Bordetella
bronchiseptica mutant designated 1K1, which contains a transposon insertion in the BB239 gene. BB239 encodes a protein of unknown function. In order to further characterize this protein, mutant type 1K1 and wild type VPI-fe1 strains of Bordetella were used in attachment assays with porcine turbinate cells (PT-K75) and canine tracheal fibroblast (CF-52). The mutant type 1K1 was seen in large clumps on the cells while the wild type VPI-fe1 was evenly distributed across the cell surface. Further experiments using avirulent phase 1K1 and VPI-fe1 showed minimal attachment to cells and abnormally high attachment to the glass slide. Future experiments will conducted using different growth medium.

Wednesday, March 26, 2014
1:00-1:50 Sessions 2A, 2B, 2C, 2D, 2E

Session 2A Room LIB207
Moderator: Debra Scurlock

Mentor: Debra Scurlock
Hannah Conn, Sara Crall, Craig Waits, & Edith Adusei-Poku, Master of Occupational Therapy

The Impact of an Occupation-based After School Program on Self-concept in Elementary School Children

The purpose of the ongoing experiment is to determine the impact of an occupation-based after-school program on elementary school children. For this quasi-experimental study, self-concept is measured using the Harter Pictoral Scale of Perceived Self-Competence. Pre-test measurements were collected from a control school and experimental group school. Student researchers are currently running an occupation-based program with first graders at the experimental school to determine if the program will improve self-concept of these students. Post-test measurements will be taken from both experimental and control groups when the after-school program ends to determine if significant changes in self-concept have occurred as a result of participation in the program. Researchers hypothesize the program will result in improved self-concept in program participants. Research is ongoing.

Session 2B Room EDU124
Moderator: Shureka Nyawalo

Mentor: Kejing Liu
Kayla Conaway, Early Childhood Education

Get on my Level

The purpose of this study is to improve struggling readers’ control of frequent words and increase reading comprehension. Research questions to be explored will focus on how could the effectiveness of word study help improve readers’ reading fluency, how a reader’s reading fluency could help improve his/her reading comprehension. This study
was conducted with a small group of students from a first grade classroom in a local school district. Primary instruments include word study, pre- & posttest, and repeated reading. As research findings suggest, allowing struggling readers to participate in tangible activities, the words will become so frequent that students can better read passages. Significance of the study is there are a lot of children who struggle with reading and need assistance with common words. With word study and other tangible games this study can help students better familiarize and fluently read common words.

Mentor: Kejing Liu
Ashley Charlton, Early Childhood Education

**Effectively Implementing Sight Word Instruction**
The purpose of this study is to examine strategies that impact students’ sight word recognition abilities. Through implementing different types of sight word instruction in to a Kindergarten classroom it should be clear to see what strategies have the most positive effects on students, and what strategies show little improvement in their sight word recognition skills. This study will be implemented over a course of 10 weeks and the following techniques as well as others will be put in to action; writing instruction, alphabet recognition and its impact on sight word recognition, and games focusing on grade level sight words. After this study is completed the pros and cons of each technique will be weighed.

Mentor: Kejing Liu
Kristin Regenstein, Early Childhood Education

**Phonics vs. Whole Language Approach**
This action research project includes issues that 3rd grade students struggle with in their reading fluency. In order to address this issue a phonics based approach will be taken to bring students back to letter sound recognition rather than the whole-language approach, which is the popular method in schools today. This study is being performed in order to increase site word recognition but without using rote memorization. Throughout the presentation the problem, significance of the study, research questions/goals, and limitations of study will be addressed based on the literature review and field experience.

Session 2C
Room UC214

Moderator: Derek Jones

Mentor: Timothy Hamilton
Chad Stump, Mathematics/Natural Sciences (Physics)

**Project PANOPTES: The Search for Exoplanets at Shawnee State University**
Since the first extrasolar planet (exoplanet) was discovered in 1992, nearly 1,000 have been found. The transit method involves observing stars which have one or more planets with orbits that pass through the line-of-sight between Earth and the parent star, partially eclipsing the star and allowing one to observe a dimming in the magnitude of the star relative to the size of the object. This will be a presentation of information from our
attempts to use a Canon EOS Rebel T4i DSLR camera with a Rokinon 85mm aspherical lens to detect transits and evaluate the feasibility of building a PANOPTES observatory in Southern Ohio.

Mentor: Derek Jones

**Kyle Purdin**

**Porphyrans and Dye-Sensitized Solar Cells**

Dye-Sensitized Solar Cells (DSSCs) are becoming a cost efficient tool for solar power. DSSCs use chemical dyes to produce a photovoltaic effect to power electronic devices. The type of chemical dye used for each DSSC and its efficiency can vary greatly. Our research synthesized porphyrins, placed them in DSSCs, and tested their efficiency.

Mentor: Derek Jones

**Nina Trankina and Sonja Porter, Chemistry**

**Synthesis of Corannulene**

Since their discovery, fullerenes and nanotubes have organized the development of nanotechnology. However, these molecules are difficult to synthesize and modify for specific tasks. Corannulene, which is 1/3 of fullerene [60 Carbons], has unique fluorescent and electrochromic properties that can be applied in a variety of fields. Furthermore, corannulene-based organic materials have the potential to advance organic light emitting diode (OLED) technology. Corannulene-based organic molecules have been designed and synthesized. This presentation will describe the process of the synthesis of corannulene.

Session 2D Room UC215
Moderator: Neil Carpathios

Mentor: Neil Carpathios

**Jeremy Grimes, Rikki Cornett & Amanda Jordan, English Generalist**

**Process of a Poem**

The presentation will cover the process of creativity that goes into the genesis and revision of a poem. Presenters will share not only how poetry comes to each of them individually, but pieces of poetry they have written.

Session 2E Room MAS213
Moderator: Catherine Bailey

Mentor: Thomas Carter

**Dafe Jessa, Biomedical Science**

**Reducing 30 Day Readmission for Heart Failure**

Heart failure (HF) is a chronic condition and a leading cause of hospitalization and health costs in the United States. Around 5.7 million people in the United States have HF, and
about half of these will die within 5 years of the diagnosis. This presentation explores methods for reducing hospitalization for heart failure.

Mentor: Thomas Carter
Sonja Porter, Chemistry and Biomedical Science

Non-Traumatic Chest Pain and Risk of Major Adverse Cardiac Events in the Emergency Department
One of the most common presenting complaints in the emergency department (ED) is chest pain. This represents a high cost and demand on the ED. The question is how should we evaluate these patients and which patients can be considered low-risk and potentially discharged home. There are several risk stratification methods that identify these low-risk patients. The one that is easiest to use in the ED is the Thrombolysis in Myocardial Infarction (TIMI) score. The TIMI score is based on multiple risk factors that evaluate the likelihood of the patient having an adverse cardiac event (ACE). This is a prospective observational study in which we follow each patient’s clinical presentation, risk factors, ECG, lab results, and any ACE that occurs up to 30 days after discharge. The primary outcome is to look directly at these low-risk patients and moderate risk groups and determine their cardiac event rate during the study time.

Mentor: Thomas Carter
Heather Kremin, Biology

Survivability of Out-of-Hospital Cardiac Arrest
This presentation is on a retrospective chart study completed in Scioto County on the Survivability of Out of Hospital Cardiac Arrest. The study gathered data from the past 4 years from Southern Ohio Medical Center's database and 479 charts were reviewed. Several variables were analyzed for correlation with the survivability and the results were compared to the national averages.

Session 2F Room MAS436
Moderator: Dan Shope

Mentor: Lavanya Vemsani
Chad Inman, Middle Childhood Education, Science and Social Studies
The Other Discoverers of America
Christopher Columbus is popularly recognized as the discoverer of America. However, less attention has been given to others who may be given credit for discovering America, including the ancestors of Amerindians, Polynesian sailors, and the Vikings. This presentation surveys accounts of other discoveries of America, ranging from confirmed, to speculative, to legendary, and presents reasons why Columbus’ discovery is the one that made the biggest difference, and why it is the one most remembered. It also examines the tantalizing question of how history would have played out quite differently if explorer Zheng He, representing China’s Ming Dynasty, had headed east across the Pacific, rather than to parts of Asia, the Middle-East, and Africa. Finally, misconceptions
about Columbus’ discovery are dispelled, including the notion that he set out to prove the world was round.

Mentor: Dan Shope
Ian Ridgeway, Sociology

Scouting for Change: Conflict and Social Change in the Boy Scouts of America's Organizational Culture
A look at the change in Scouting's organizational culture since the landmark court case Boy Scouts of America, et al. v. Dale (2000). Prior to this case, The Boy Scouts of America (BSA) disallowed Scout leaders who were openly homosexual or bisexual. The Supreme Court of the United States ordered that the Scouts could bar a Scout leader from participation due to freedom of association of rights of private organizations such as the BSA. Utilizing interview data of BSA administrators and volunteers, this research seeks to discover whether or not the recent ruling to allow openly homosexual and bisexual Scouts is indeed a compromise by BSA's organizational leadership to appease a national audience pressuring for more aggressive wide sweeping social change in Scouting that may ultimately lead to the additional acceptance of openly homosexual or bisexual Scout leaders.

Mentor: Courtney Flint
Beverly Barry, Natural Science

Living in the Doghouse
There are many legal problems surfacing as the number of people who own household pets increases annually, stemming from the traditional historic view of companion animals as personal property. In order to establish a basis for understanding where companion animals come from and why they are important to humans, a brief history of domestication and an overview of the current societal view of pets are given. Arguments for and against revising the current legislature regarding companion animals are considered and reviewed. It is concluded that there is a need to revise the laws in order to reflect the current view of the status and necessary treatment of companion animals.

Wednesday, March 26, 2014
2:00-2:50 pm

Session 3A
Room LIB207
Moderator: Larry Miller

Mentor: Larry Miller
Ariya Arnold, English, Communication

Can Video Games Help Students Learn New Languages?
Since the start of the digital age, there have been new ways to teach students. Use of the internet and video games could possibly help students to learn and retain language.
However video games are often pointed to as a source of violence and entertainment for many children therefore not helping to educate children in any way. Through research and studies that encompassed children from countries around the world, the results pointed to the fact that video games could teach students new languages and could help them retain the language and vocabulary better than their counterparts who only used the classroom option of learning.

Mentor: Shureka Nyawalo

**Travis Lynn, Digital Simulation & Gaming Engineering Technology**

**Do you speak #Hashtag?**
As technology advances, the business world changes with it. Students need better networking and communication skills everyday to make it in the work force. With these new advances also come new learning opportunities that can be embraced to help keep students’ soft skills where they need to be when chasing after their career. This presentation takes a glance at how Twitter micro blogging software can be used to help students with their communication and networking skills and how it can be incorporated into the classroom. By using a mixture qualitative and quantitative data the essay looks over the pros and cons of Twitter in an educational setting.

Mentor: Greg Lyons

**Jordan Philippi, Gaming & Simulation Development Arts**

**One Night in the Mystery Mansion**
San Jose, 1926. You are invited to Ripley’s Believe It or Not’s grand reopening of the historic Winchester Mystery House! But a night of champagne and music turns to terror when the building is transported into an otherworldly dimension where monsters roam its labyrinth of twisting corridors. Join reporter Samuel Ashcroft as he unlocks the secrets of the mansion in this mystery/horror adventure. One Night in the Mystery Mansion is the winner of the Shawnee 11.0 (2013) Game Design Contest. Once again the doors of the mansion have opened to reveal story notes, concept art, an explanation of gameplay and mechanics--as well as newly improved features!

Session 3B Room EDU124
Moderator: Melody Sands

Mentor: Melody Sands

**Christina Wagner, Middle Childhood Education**

**Scioto County Children Food Insecurity Affecting Education**
The focus of my presentation will be on the alarming rate of childhood food insecurity in Scioto County. I will also examine the effects this has on education. Many community members have recognized this, creating programs to help combat childhood hunger. I will also explain some of those programs and resources in Scioto County.


Mentor: Melody Sands

Emily Shope, Environmental Engineering Technologies

The Need For Recycling Centers In Appalachia
The Environmental Protection Agency estimates that, on average, a person generates four and a half pounds of trash every day. The EPA, also, estimates that only thirty percent of waste is recycled when seventy percent could be. In Appalachia there are no opportunities for recycling waste materials unless you live in a populous community. Yes, there are recycling centers set up, but they require a lengthy drive or only accept minimal items. Establishing centers that can collect items of all shapes, sizes, and materials to be recycled would allow the Appalachian region to stay beautiful and healthy. Without these centers now, Appalachian people have to resort to throwing away toxic materials and putting items in the trash that could be recycled into something else. Recycling centers would keep landfills in lower demand, provide jobs, and keep the Appalachian environment safe, healthy, and natural.

Mentor: Melody Sands

Justin Ottney, Associate of Arts - Communications

Mass Media Conglomeration
The presentation will cover the conglomeration that has narrowed the number of media organizations down significantly over time. A chronological calendar of key events leading to today's media structure will be examined. The potential pros and cons of the situation will be examined as well.

Session 3C Room UC214
Moderator: John Whitaker

Mentor: John Whitaker

Jenny Huston, AYA Integrated Mathematics

Two card tricks
In this presentation, I will demonstrate through exhaustive listing of all possibilities how the card tricks known as the "Baby Hummer" and "The Magic of De Bruijn Sequences" work.

Mentor: John Whitaker

Jonathan Clevenger, Chemistry/Mathematical Sciences

Some Mathematical Counterexamples
In this presentation, we will first show an example of where changing the order of integration yields a different result. Thus, demonstrating that one cannot always change the order of integration to compute a double integral. Lastly, we will give an example of a derivative that is not continuous. Thus, indicating that not all derivatives are continuous.
Mentors: Preston Nichols & Michael Barnhart

Brittany Burns, Mathematics

Composing Music Using Mathematics
There are many styles and techniques used to compose musical works. This presentation will focus on using mathematics, specifically group theory, to compose a piece of music. The relationship between dihedral groups and musical melodies will be discussed, along with the relationship between musical tones and the class of integers.

Session 3D Room UC215
Moderator: Patric Leedom

Mentor: Chris Shaffer
Haley Hemming, Lynzee Murray,& Leah Arms, Sociology

Appalachian Health Services Project
This will be a presentation of the progress of the data collection and compilation we made the previous semester in our Appalachian Teaching Project class, in which the goal was to research and collect data on the local health assets of the surrounding five counties. These counties were ranked the lowest in the state on their overall state of health. The ultimate goal was to see if it were potentially possible to improve the overall state of health in these counties by making health information more easily accessible to the people that reside within these counties. While collecting the data, we were also conducting research on which counties lacked health assets, and which counties had the information the least available to their citizens so we could possibly take future steps to improve these factors as well. The information we have gathered has been quite informative.

Session 3E Room MAS436
Moderator: Pat Spradlin

Mentor: Sandra Cox
Tiffany Casteel, English Generalist

Change of Masculinity in Edgar Allen Poe's "The Black Cat"
This presentation takes a look at the changes made of the narrator's characterization from that of a paternal masculinity to a patriarchal masculinity. The main argument is focused on how Poe may have been making a statement in which patriarchal masculinity is potentially dangerous and how average men of that time should strive towards paternal masculinity instead. The presentation touches on some of the changes of characterization which are noticeable by the reader which lead to the narrator murdering his beloved cat and wife.
Mentor: Isabel Graziani

**Erica Hasselbach, Drawing**

**The Difference of Gender**
This PowerPoint presentation describes the hardships female artists have had to deal with in order to receive any sort of recognition in the art field. It shows how their works have had to evolve and how this problem is still faced by women today.

Mentor: Melody Sands

**Amanda Jordan, English Generalist**

**Be a Princess**
A discussion of the misconceptions related to feminism as it applies (or does not apply) to the official line of Disney Princesses. This presentation will be a research guided critique of the Disney Princesses and will discuss the unpopular notion that they are actually feminist role models.

**Wednesday, March 26, 2014**
3:00-3:50 pm  **Sessions 4A, 4B, 4C, 4D**

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**Session 4A**  Room EDU124

**Moderator: Kenneth Carlson**

Mentor: Kenneth Carlson

**Jessica Newton, Integrated Mathematics AYA 7-12**

**Economic Motivation**
This presentation is about a study conducted on a local 8th grade mathematics class, focusing on how a classroom economy can motivate students.

Mentor: Kenneth Carlson

**Stephanie Cleland, AYA Mathematics Education**

**Graphic Organizers in the Math Classroom**
I will be discussing the effects of using graphic organizers in math - specifically a freshman Algebra class. I will cover the organizational structure of the material, the rate of progress of the students, and attitude of the students toward the material. I will be presenting the findings of my Action Research project from a field of approximately 60 students all taking the same class.
Mentor: Kenneth Carlson
Mariah Fitch, Mathematics Education

Who should do the talking?
I will be researching the assessment differences after a teacher-led lecture and student led group work. Do students learn more own their own using their critical thinking skills?

Mentor: Kenneth Carlson
Kyle Spiegel, Education, Mathematics and Science Concentration

Under Pressure
The presentation will include the study of middle school children, on the effects of added pressure before taking tests in a mathematics class. Do students perform better, worse, or are they not bothered by added pressure before taking a test?

Session 4B Room UC214
Moderator: Deborah Davis

Mentor: Katy Mathuews
Ali Thompson, MBA, Wright State University

The Determinants of the Gender Wage Gap: A Study Focusing on the Family Status Factor
My presentation discusses the 4 possible determinants of the gender wage gap: human capital differences, occupational segregation, discrimination, and the family status factor. My research indicates that the family status factor is the main determinant of the gender wage gap, while presenting information disproving the other theories (at least as the main cause). My presentation also discusses how the family status factor contributes to the other three determinants.

Mentor: Shannon Lawson
Stephanie Ross, Environmental Engineering Technology

Should the United States Continue to Move Toward Ethanol as an Alternative Fuel in Passenger Vehicles?
This presentation will provide support for the use of ethanol in the United States as an alternative fuel for passenger vehicles. Ethanol provides positive environmental impact by producing lower greenhouse gas emissions and better air quality, positive social impact by creating jobs and helping improve the United States’ infrastructure, and lower costs to Americans by lowering the cost of gasoline. Ethanol is also a renewable fuel source unlike current fossil fuels. People who oppose ethanol fuel believe that it could negatively affect the environment, its increased production could harm the United States socially, and it is too expensive to be practical. This presentation will explore each of these points and show that this nation would be taking an important step forward developing ethanol further.
Finding Yourself
This presentation is about an ethnography centered on the inner mechanics of a Sci-Fi and Japanese Anime Convention. It defines and analyzes cosplay while following two female attendees over the course of one day and gives an inside look at cosplaying basics, attendee interactions, and convention etiquette. It considers male and female gender roles during the convention and how they differ from traditional societal expectations. Finally, it will explore the importance of convention attendance to each individual, while illustrating the physical, visible transformation that occurs with cosplay but more importantly unmasking the internal, hidden transmutation that rises inside the individual who cosplays.

Session 4C Room UC215
Moderator: Marc Scott

Mentor and Co-Presenter: Marc Scott
Jacklyn Hockenberry, Elizabeth Miller, & Lyna Kelley,

Tutoring Beyond the Caricatures: Working with Appalachian Students in the Writing Center
At the SSU Writing Center, we work with a significant number of writers who share characteristics that can be linked to Appalachian Culture. In our presentation, we seek not only to describe the opportunities and obstacles relevant to tutoring Appalachian students, but also present a working definition of Appalachian culture, identify common issues we engage in consultations with Appalachian writers, and elaborate on tutoring approaches relevant to such writers. A few of the issues we may discuss include students exhibiting apprehension or anxiety about their writing, resisting feedback, and writing in non-standard dialects. Those attending our session will gain a better understanding of how to work with students from similar backgrounds. More importantly, however, those attending will hopefully see how paying careful attention to culture—without essentializing or stereotyping—can meaningfully impact writing center work.

Session 4D Room MAS436
Moderator: Lavanya Vemsani

Mentor: Lavanya Vemsani
Lacie Norris, Kayla Radak, Tracy Sims, Zack Burton, History

Middle Eastern and Asian Cultures
Presenters will provide brief historical and cultural descriptions of ancient and postmodern cultures of Middle Eastern and Asian countries.
Wednesday, March 26, 2014
4:00-4:50 pm

Special Sessions

TRUSTEES’ AWARD SESSION
Room LIB207
Moderator: Sandra Cox

Mentor: Melody Sands
Tashana Bowling, Early Childhood Education

The Education Crisis in Appalachia
There is a profound need for better education in our Appalachian area. There are many programs which people are unaware of, and so many things they can do to help our students succeed in life! My presentation will cover many related topics as well as encourage our parents and community to reach out to students who are in need of a better education.

Mentor: Dan Johnson
Chuck Norris, Mathematical Sciences

Presentism Without Modern Physical Theories
Humanity’s understanding of the physical realm grows and our explanations of its operations and workings must also grow- the ebb and flow of science and philosophy. Presentism is a metaphysical theory of time that seeks to better explain time as it applies to the world. It will be shown that the incompatibilist presentist, one who holds a view of presentism that is incompatible with relativistic physical theories, no matter their position on modern theories, is committed to denying demonstrable data of the world we live in, and therefore has good reason to abandon the presentist enterprise. After this I will attempt to reply to objections that may be raised in defense of incomptatabilist presentism.

Mentor: Sarah Minter
Amanda Porter and Tim Blankenship, Biology

Small Mammal Diversity in Shawnee State Forest
Little is known about the diversity, habitat preferences, or seasonal activity of small mammal species occurring in Shawnee State Forest. Existing species distribution records date to the 1960’s and prior. Over the last several decades human activities and natural catastrophes have changed the fundamental layout of this region. Such changes have likely influenced the suitability of microhabitats and thus, the suitability of the forest system for small mammals. Our study focuses on documenting the current richness and distribution of small mammals in this system. Specifically, our investigation encompasses three ecosystems and four trapping techniques. As our study will continue through April of 2014, only preliminary data and results will be presented. Our data will provide useful ecological information about collecting species including habitat preferences, winter activity, and relative abundance. Data may serve in future wildlife conservation and
management plans. This project is funded by a Shawnee State Research Experience (SSRE) Grant.

Mentor: David Todt
Sadeddin Yamlikha, Biology PreMed

**Video Editing/Producing in Education**
How can videos help in education? Is it hard to create one? What is the cost of video editing software? These and many other questions will be answered in this presentation about creating short videos for presentations or for other purposes, which will include sharing my experiences in this field. For example: Honors Contract, President’s Gala, study abroad, and more!

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**DISTINGUISHED LECTURE PRESENTATION**
Room Flohr Lecture Hall

**Moderator, Barbara Conn**

**CYNTHIA CLARK**
The Power of Civility to Foster Healthy Workplaces

Wednesday, March 26, 2014
5:00-6:20 pm

**Special Sessions**

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**Moderator: Eric Braun**
Room LIB 205

**Ohio University Voinovich School of Leadership and Public Affairs Regional Business Pitch Competition – Shawnee State University Institutional Competition**

Student | Major
--- | ---
Adams, Tyler A | Business Administration
Banks, Trevor R | Sport Studies
Bertram, Amanda L | Individualized Studies
Bevelhymer, Gregory F | Sociology
Bogard, Arthur D | Mathematical Sciences
Carbonari, Thomas C | Business Administration
Colley, Vickie L | Nursing
Devlin, Andrew M | Sociology
Gephart, Hannah E | Sport Studies
Graf, Eric C | Business Administration
Johnson, Kyle A_A | Sociology
Keys, Rebekah G | Sociology
<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
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<tbody>
<tr>
<td>Lavallee, Jaymie R</td>
<td>Business Administration</td>
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<tr>
<td>Legge, Rebecca L</td>
<td>Sociology</td>
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<tr>
<td>Lewis, Zachary L</td>
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<tr>
<td>Mitchell, Catrice M</td>
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<tr>
<td>Painter, Shawn S</td>
<td>Fine Arts</td>
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<td>Putnam, Krista L</td>
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<td>Sabo, Steven N</td>
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<td>Santos, Priscila</td>
<td>International Relations</td>
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<td>Sheets, Alannah B</td>
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<td>Smith, Haley R</td>
<td>Nursing</td>
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